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TITLE : PRODUCTION OF MULLITE POROUS BODY

ABSTRACT : PURPOSE: To easily obtain a porous body consisting of mullite needle crystals by adding carbon powder to a mixture of clay and AlF₃, forming the mixture, calcining the formed body and then reheating the calcined body to remove the residual carbon by oxidation.

CONSTITUTION: One hundred pts.wt. of a material consisting of 95-50wt.% clay and 5-50wt.% AlF₃ is mixed with 5-10O pts.wt. of carbon powder, and the mixture is formed. The formed body is calcined at a temp. where a mullite needle crystal is formed and then reheated to remove the residual carbon by oxidation. Kaolinite is most preferably used as the clay to increase the yield of the mullite needle crystal. Graphite is used as the carbon. The calcination temp. is controlled to 1200-1500°C. The reheating is ordinary carried out at about 800°C where the residual carbon is sufficiently removed.

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